To Tamp
then file
ACT/047/017

WHITE RIVER SHALE OIL CORPORATION

SUITE 500 PRUDENTIAL BUILDING, 115 SOUTH MAIN STREET
SALT LAKE CITY, UTAH 84111
(801) 363-1170

JIM

June 10, 1983

JUN 18 1983

Mr. Eric G. Hoffman
Acting Deputy Minerals Manager for Oil Shale
Bureau of Land Management
Oil Shale Office
131 North 6th Street, Suite 300
Grand Junction, CO 81501

Dear Mr. Hoffman:

The White River Shale Oil Corporation (WRSOC) intends to construct an electric power transmission system which will provide electric power for both construction and operation of the White River Shale Project. The transmission system will be constructed in part by WRSOC and in part by Utah Power and Light Co. (UP&L). All on-tract structures will be constructed by WRSOC.

Enclosed for your review is a copy of the Right of Way application submitted to the BLM for those electric power transmission facilities which will be constructed by WRSOC on BLM administered federal lands. The application describes the proposed power transmission system and Appendix A indicates the proposed routing for WRSOC's portion of the powerline. WRSOC hereby requests the Oil Shale Office's approval for those portions of the power line system which will be located on Tract Ua.

If you require additional information on this project, please contact me or Mr. Ralph A. DeLeonardis for assistance.

Sincerely,

James W. Godlove

James W. Godlove
Director of Environmental Affairs

Enclosure

JWG:RAD/mjd

cc: Dean Evans - BLM
James Smith - UDOGM

STANDARD FORM 299 (12–81)
Prescribed by DOI/USDA/DOT
P.L. 96–487 and Federal Register
Notice 6–3–81

APPLICATION FOR TRANSPORTATION AND UTILITY SYSTEMS AND FACILITIES ON FEDERAL LANDS

FORM APPROVED
OMB NO. 1004–0060
Expires May 31, 1983

NOTE: Before filing the application, the applicant should completely review this package and schedule a preapplication meeting with representatives of the agency responsible for processing the application. Each agency may have specific and unique requirements to be met in preparing and processing the application. Many times, with the help of the agency representative, the application can be completed at the preapplication meeting.

FOR AGENCY USE ONLY

Application Number

Date filed

1. Name and address of applicant *(include zip code)*

White River Shale Oil Corporation*
115 South Main St., Suite 500
Salt Lake City, UT 84111
*as agent for Phillips Petroleum Co., Sohio Shale Oil Co., & Sunoco Energy Development Co.

2. Name, title, and address of authorized agent if different from Item 1 *(include zip code)*

Mr. Robert N. Pratt
President

3. TELEPHONE *(area code)*

Applicant
(801) 363-1170

Authorized Agent
Same

4. As applicant are you? *(check one)*

a. [ ] Individual
b. [X] Corporation*
c. [ ] Partnership/Association*
d. [ ] State Government/State Agency
e. [ ] Local Government
f. [ ] Federal Agency

* *If checked, complete supplemental page*

5. Specify what application is for: *(check one)*

a. [X] New authorization
b. [ ] Renew existing authorization No. _____.
c. [ ] Amend existing authorization No. _____.
d. [ ] Assign existing authorization No. _____.
e. [ ] Existing use for which no authorization has been received*
f. [ ] Other*

* *If checked, provide details under Item 7*

6. If an individual, or partnership are you a citizen(s) of the United States? [X] Yes [ ] No

7. Project description *(describe in detail)*: (a) Type of system or facility, *(e.g. canal, pipeline, road)*; (b) related structures and facilities; (c) physical specifications *(length, width, grading, etc.)*; (d) term of years needed; (e) time of year of use or operation; (f) volume or amount of product to be transported; (g) duration and timing of construction; and (h) temporary work areas needed for construction. *(Attach additional sheets, if additional space is needed.)*

See Attached

13a. Describe other reasonable alternative routes and modes considered.

One reasonable alternative was considered:

1) Begin the White River Shale Oil Corp. line in the SW 1/4, Section 24, T10S, R23E of Asphalt Wash and follow the existing Right of Way for the road which proceeds southeast into Section 30, T10S, R24E and subsequently branches out into Section 21, T10S, R24E. The power line would deviate from the existing road in the SW 1/4 of Section 21 and proceed east to the substation located in Section 22 on Tract Ua.

b. Why were these alternatives not selected?

The preferred route is much shorter than the alternative. Therefore, the preferred route will be less expensive to construct and will result in less overall disturbance. In addition, the preferred route parallels UP&L's route from Asphalt Wash to the northwestern "tip" of Tract Ua and, therefore, minimizes total construction disturbances occurring on BLM administered land.

c. Give explanation as to why it is necessary to cross Federal lands.

As discussed in the response to Question No. 7, White River Shale Oil Corporation will interface with UP&L's power distribution system in the SE 1/4 of Section 24, T10S, R23E. In order to deliver power to the White River Shale Project substation, White River Shale Oil Corporation must construct a power line which crosses Federal lands and proceeds to the substation located on Tract Ua.

14. List authorizations and pending applications filed for similar projects which may provide information to the authorizing agency. *(Specify number, date, code, or name.)*

UP&L Right of Way Application for a 138 KV power transmission line beginning south of the Bonanza Power Plant (Section 2, T9S, R23E) and terminating in Asphalt Wash (Section 24, T10S, R23E). The UP&L Right of Way Application has been filed concurrently with the White River Shale Oil Corporation Right of Way Application.

15. Provide statement of need for project, including the economic feasibility and items such as: (a) cost of proposal *(construction, operation, and maintenance);* (b) estimated cost of next best alternative; and (c) expected public benefits.

See Attached

16. Describe probable effects on the population in the area, including the social and economic aspects, and the rural lifestyles.

Construction of the proposed power transmission line should not significantly effect the population in the area.

SUPPLEMENTAL

NOTE: The responsible agency(ies) will provide additional instructions.	CHECK APPROPRIATE BLOCK	
I – PRIVATE CORPORATIONS	ATTACHED	FILED *
a. Articles of Incorporation	☐	☒
b. Corporation Bylaws	☐	☒
c. A certification from the State showing the corporation is in good standing and is entitled to operate within the State.	☐	☒
d. Copy of resolution authorizing filing	☐	☐ N/A
e. The name and address of each shareholder owning 3 percent or more of the shares, together with the number and percentage of any class of voting shares of the entity which such shareholder is authorized to vote and the name and address of each affiliate of the entity together with, in the case of an affiliate controlled by the entity, the number of shares and the percentage of any class of voting stock of that affiliate owned, directly or indirectly, by that entity, and in the case of an affiliate which controls that entity, the number of shares and the percentage of any class of voting stock of that entity owned, directly or indirectly, by the affiliate.	☐	☐ N/A
f. If application is for an oil or gas pipeline, describe any related right-of-way or temporary use permit applications, and identify previous applications.	☐	☐ N/A
g. If application is for an oil and gas pipeline, identify all Federal lands by agency impacted by proposal.	☐	☐ N/A
II – PUBLIC CORPORATIONS		
a. Copy of law forming corporation	☐	☐
b. Proof of organization	☐	☐
c. Copy of Bylaws	☐	☐
d. Copy of resolution authorizing filing	☐	☐
e. If application is for an oil or gas pipeline, provide information required by Item "I-f" and "I-g" above.	☐	☐
III – PARTNERSHIP OR OTHER UNINCORPORATED ENTITY		
a. Articles of association, if any	☐	☐
b. If one partner is authorized to sign, resolution authorizing action is	☐	☐
c. Name and address of each participant, partner, association, or other	☐	☐
d. If application is for an oil or gas pipeline, provide information required by Item "I-f" and "I-g" above.	☐	☐

* If the required information is already filed with the agency processing this application and is current, check block entitled "Filed." Provide the file identification information *(e.g. number, date, code, name)*. If not on file or current, attach the requested information.

SECTION 7

The White River Shale Oil Corporation (WRSOC), as agent on behalf of Phillips Petroleum Company, Sohio Shale Oil Company and Sunoco Energy Development Co., has been retained to manage development of Federal Prototype Oil Shale Tracts Ua and Ub, known as the White River Shale Project (WRSP). Plans are being developed to construct an electric power transmission system which will provide electric power for both construction and operation phases of the WRSP. The transmission system will be constructed in part by Utah Power and Light Company (UP&L) and in part by the WRSOC, and will be located primarily on BLM administered federal lands.

This application describes only those electric power transmission facilities to be constructed by the WRSOC. Concurrent with this application, a companion application is being submitted by UP&L describing their separate facilities. The UP&L application describes a 138 KV electric power transmission line beginning south of the Bonanza Power Plant in Section 2, T9S, R23E, and terminating in Asphalt Wash (Section 24, T10S, R23E) west of the WRSP. The WRSOC application describes a transmission line beginning in Asphalt Wash, at the termination of the UP&L line, and extending to the east into the WRSP plant site.

The WRSOC system will involve construction and operation of a 138 KV power transmission line which will be approximately 22,700 feet in length. About 17,300 feet of the line will be within the boundary of Tract Ua and about 5,400 feet will lie to the west of Tract Ua. Appendix A shows the routing of the proposed WRSOC power line. The WRSOC line will begin in the SE 1/4, Section 24, T10S, R23E, in Asphalt Wash and parallel a section of the new UP&L line into the NW 1/4, Section 19, T10S, R24E. From that point the WRSOC line will traverse to the eastsoutheast into an electrical substation to be constructed at the WRSP plant site in Section 22, T10S, R24E.

The right of way corridor for the power line will be 200 feet wide. Wooden H-frame towers will be constructed within the ROW corridor. Insulators will be hung in a vertical manner from the tower with each of the three phases consisting of one 397.5 MCMACSR conductor. The minimum clearance between the ground and the conductors will be 27 feet. A sketch of a typical tower is enclosed as Appendix B.

The poles used to construct the tower will be approximately 60 feet in length. Each pole will be buried eight feet below ground for structural support. Individual towers will be spaced approximately 700 feet apart.

The power line will serve the WRSP for both construction and operations and for the useful life of the WRSP (in excess of 25 years). Construction of the power line is expected to begin in

SECTION 7 (Continued)

early 1984 and will require approximately 9 months to complete, including the UP&L section from the Bonanza Power Plant to Asphalt Wash.

Construction disturbance will primarily be associated with the installation of the individual towers.

SECTION 15

The power transmission line must be constructed in order to deliver power to the WRSP plant site. WRSOC will construct approximately four miles of power line; of which approximately 1 mile will be on federal land. Construction of the four miles of power line and the associated substation will cost approximately $1.2 million.

Operation and maintenance costs are assumed to average 2% of the total capital costs on an annual basis (i.e., $24,000 per year).

The cost of the alternate power line route would be substantially more expensive since it involves the construction of approximately seven miles of line. The total construction costs associated with the alternate route would be approximately $1.65 million, with associated annual operation and maintenance costs of approximately $33,000.

Direct public benefits associated with the construction of the power transmission line will be negligible. However, the power line construction is necessary for the construction and operation of the WRSP which will provide job opportunities for the local residents.

SECTION 17

The likely environmental effects that the proposed power line will have on air and water quality, bodies of water, existing noise levels, and land surface will be negligible. There will, however, be some visual impacts associated with the power transmission lines and towers. Whenever possible, the power line and associated towers will be located in a manner which reduces their overall visual impact.

A thorough description of the existing environment in the ROW area is provided in the WRSP Final Environmental Baseline Report (October 1977).

All areas disturbed during construction of the power line will be reclaimed and revegetated.

SECTION 18

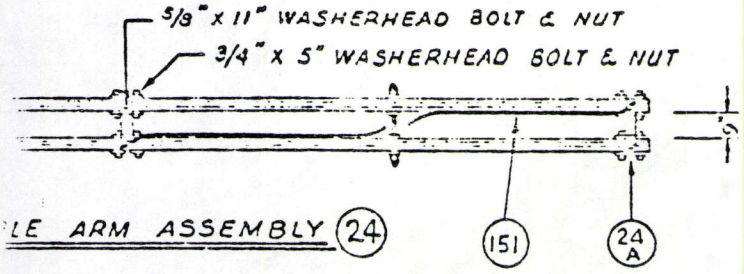
The overall project will not adversely effect local populations of fish, plant, wildlife and marine life. As discussed in the WRSP Final Environmental Baseline Report (October 1977), there are no Threatened and Endangered species (i.e., plant or animal) within the proposed ROW area. In addition, an archaeological and paleontological survey of the area has been conducted and the results described in a July 30, 1975 report by M.S. Berry and C.F. Berry entitled "An Inventory and Evaluation of Cultural Resources In and Around Oil-Shale Lease Areas Ua and Ub." The results of this survey indicated that there are no significant archaeological or paleontological sites within the ROW area. However, it has come to our attention that a recent survey sponsored by UP&L has located a significant archaeological site in the northeast corner of the SE 1/4 of Section 24, T10S, R23E. This site is within the vicinity of the proposed ROW. In order to mitigate any potential adverse effects to this site, WRSOC will implement the following mitigation measures:

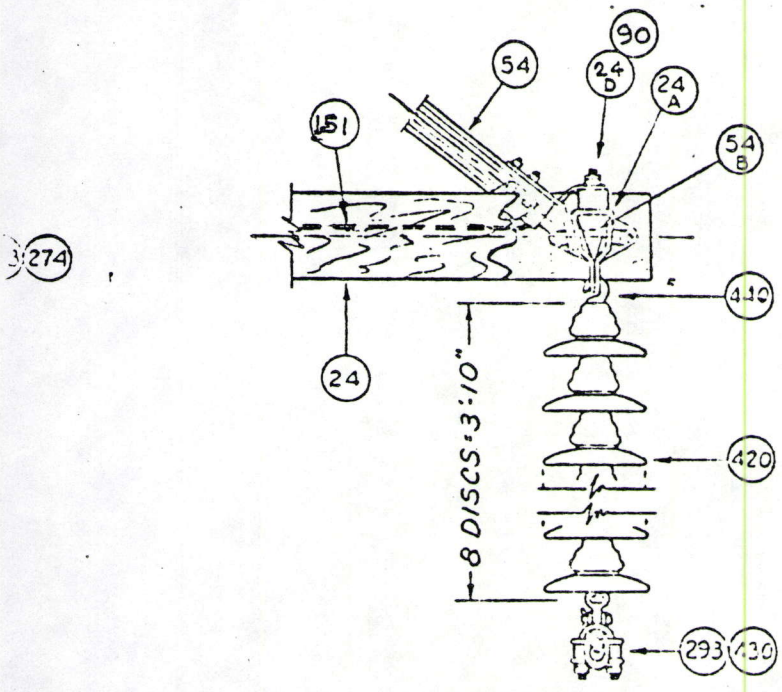
1. Construction equipment will be restricted from this area;

2. Construction personnel will be required to refrain from collecting artifacts;

3. WRSOC will report the finding of any additional artifacts in the area to BLM.

D. WIRE TO CROSSARM AS SHOWN
INTERVALS & BOND TO SPACER





DETAIL 13

(179)

(53A)(53B)

(51)(152)(154)

SPECIFIED)

ALL BOLTS 1/2"ϕ OR LARGER TO BE DRIVE POINT UNLESS FACTORY ASSEMBLED.

ALL METAL TO WOOD FITTINGS TO BE TAPPED

ALL LOCKNUTS TO BE M.F.

BILL OF MATERIAL

ITEM	QTY.	DESCRIPTION	REMARKS
1	2	POLE, WEST. RED CEDAR	BUTT TREATED
24	1 SET	DOUBLE CROSSARM ASS'Y	3 5/8" x 9 1/2" x 28'-0
		ASSEMBLED COMPLETE	UA-47275
24A	3/SET	SPACER FTG. & MTG. BOLTS	HUGHES # 2880
24B	4/SET	GAIN FTG. W/GRD. CLIP	UA-44878
24C	2/SET	D.A. BOLT 7/8" x 22" W/2 NUTS & 2 LOCKNUTS	
24D	3/SET	5/8" FLAT ROUND WASHER	GALV.
53	1 SET	X-BRACE 3-6" SPACING	WHEN SPECIFIED
		W/END FTGS. ASSEMBLED	HUGHES # 1042
53A	4/SET	4" SQ. CURVED WASHER	15/16" HOLE
53B	4/SET	MACH. BOLT 7/8" W NUT & LOCK-NUT	25% 14", 50% 6", 25% 16"
53C	4/SET	GRD. CLIP W. BOLT, NUT, LOCKNUT	UA-46299
54	2 SETS	VEE BRACE 3 1/2" x 4 3/4" WOOD	UA-38105
		W/END FTGS. ASSEMBLED	WHEN SPECIFIED
54A	1/SET	GRD. CLIP W/BOLT NUT, LOCKNUT	UA-46299
54B	1/SET	BENT STUD BOLT W/2 NUTS, 2 WASH., 2 LOCKNUTS	
54C	1/SET	MACH. BOLT 3/4 x 2" W/NUT & LOCKNUT	
54D	1/SET	4" SQ. CURVED WASHER	13/16" HOLE
90	3	5/8" LOCKNUT - M.F.	
150	2	4" SQ CURVED WASHER	13/16" HOLE
151	250'	GROUND WIRE	#6 CU. WELD
152	70	GROUND WIRE CLIP	KEARNEY #5730
153	6	2" FENCE STAPLE	FOR BUTT WRAP
154	80	10d GALV. BOX NAIL	FOR # 152 & 157
157	2	BUTT PLATE	BLACKBURN #SP-100
177		AERIAL STR. NUMBERS	UA-46143
179	8	CASELOK CRIMP-T	BURNDY
183	2	3/4" EYE NUT	HUBBARD # 7511
273	2	SHIELD WIRE BRACKET	UA-39455
274	2	SUSPENSION CLAMP	FOR SHIELD WIRE
293	3 SETS	PREFORMED ARMOR ROD	FOR CONDUCTOR
321	15'	E.H.S. STEEL GUY STRAND	GALV.
344	1	PREFORMED GUY GRIPS	
355	1	STRANDVISE	RELIABLE
420	24	10" DISC INSULATOR	O.B. # 32440
430	3	SUSP. CLAMP & SOCKET EYE	FOR CONDUCTOR
440	3	SUSPENSION HOOK	O.B. # 78420

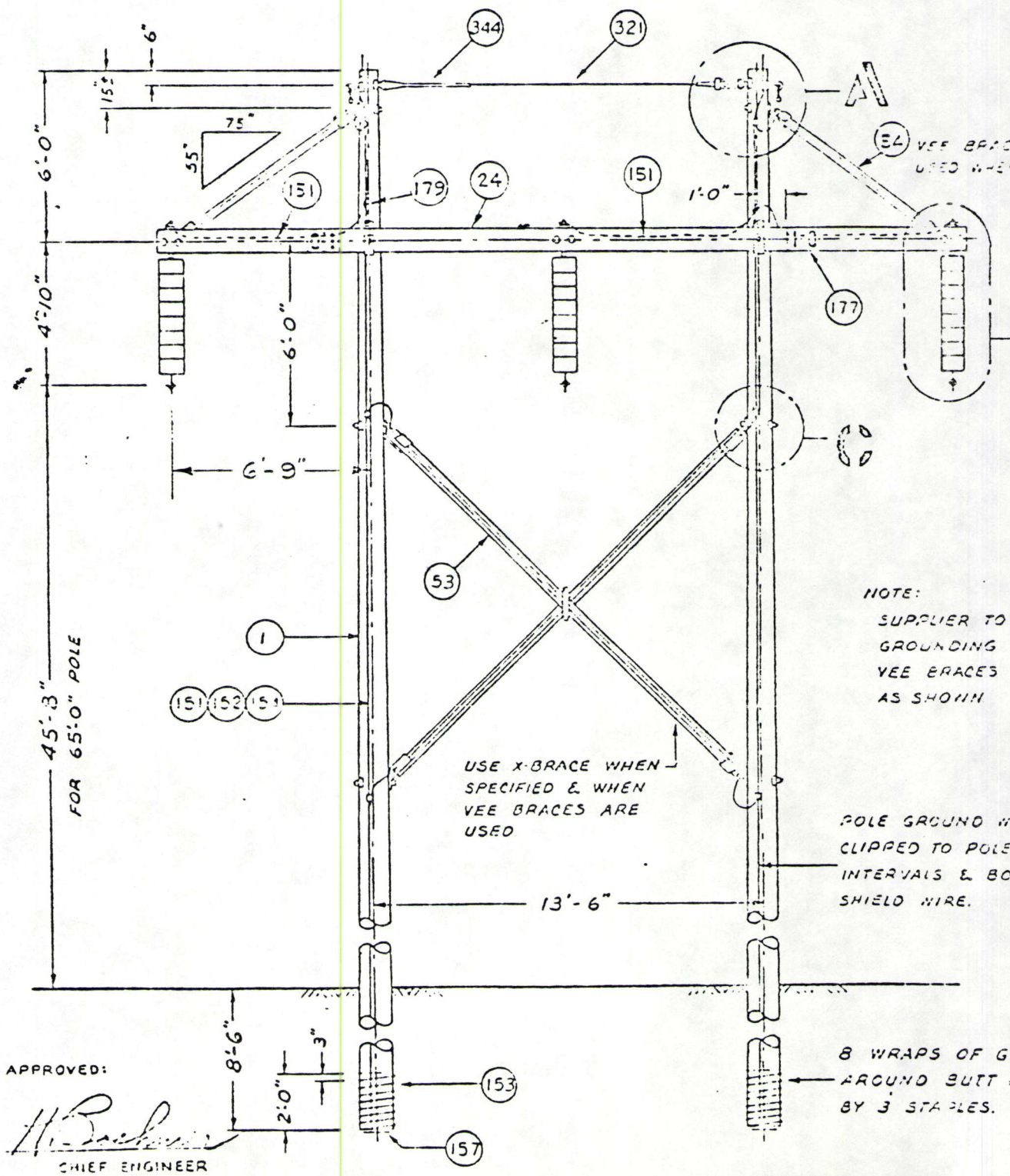
138 KV TRANSMISSION TYPE "HS" TANGENT STRUCTURE

UTAH POWER & LIGHT CO.
SALT LAKE CITY, UTAH

JUNE 18, 1959
NO SCALE

UB-46500-C

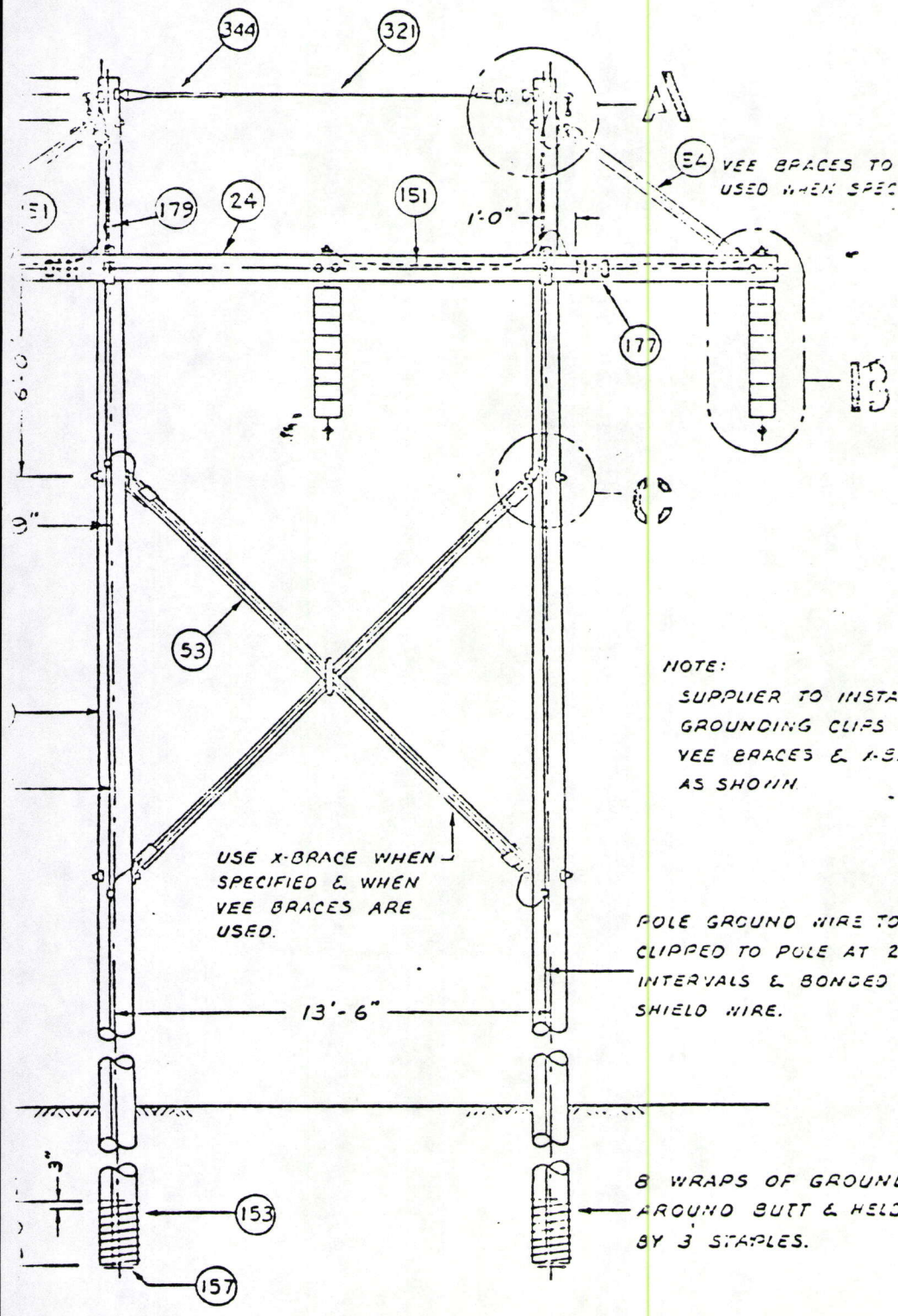
9-1-71 / ADDITIONAL GROUNDING / HLN/PWD

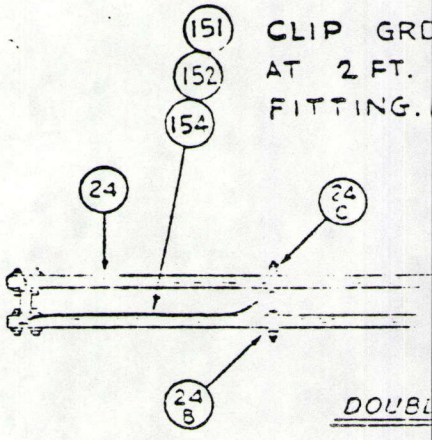


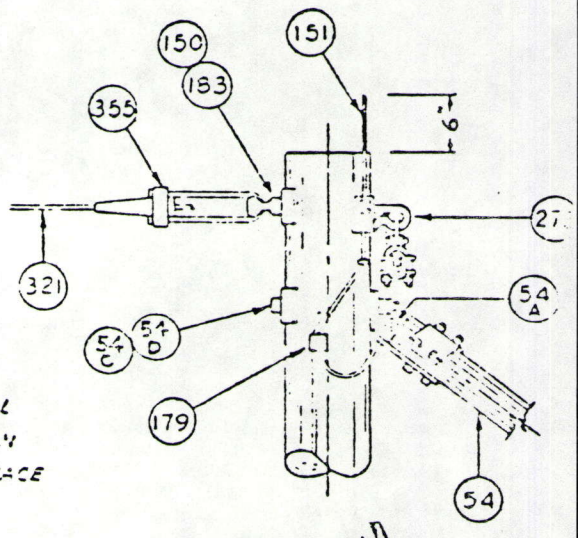
DRAWN BY	
CHECKED BY	
CONNECT	

APPROVED:

CHIEF ENGINEER

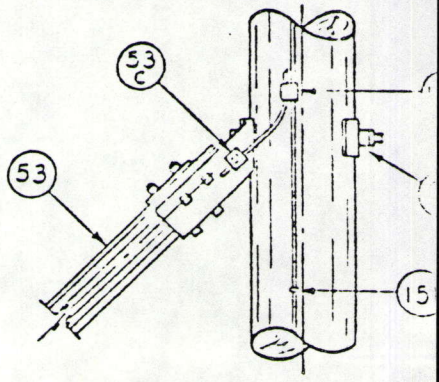






NOTE:
SUPPLIER TO INSTALL GROUNDING CLIPS ON VEE BRACES & X-BRACE AS SHOWN

DETAIL A



DETAIL C (WHEN